

# case study

## Extension of equipment oil life for a major chemical company in Qatar

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### Problem

After nine years in service, a specific oil exhibited escalating bearing temperatures, with the MPC value surpassing the critical limit of 30. With the next planned shutdown scheduled 12 months away, there arose a critical need to prolong the oil's lifespan to avert an imminent unplanned shutdown.

### Solution

With the help of Petrotec, Fluitec's **ESP VITA™ III** unit was attached to the system and **DECON™** added at a rate of 3%. This would help to prevent further deposits while removing the existing deposits and extend the life of the oil until the planned shutdown.

### Results

In a span of four days, a remarkable 97% reduction in MPC value was achieved, concomitant with a substantial decline in bearing temperatures. Sustained maintenance

### Total Saved

# \$374K

<b>Client:</b>	Major Chemical Company
<b>Country:</b>	Qatar
<b>Application:</b>	Mitsubishi Compressor
<b>Cost savings:</b>	\$374,000 over 10 years
<b>Oil savings:</b>	16,000 liters
<b>CO2e kg saved:</b>	109,462 CO2e kg over 10 years
<b>Solution:</b>	DECON AO & ESP VITA II



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of bearing temperatures below the critical threshold ensued. Post ESP offline disconnection, both bearing temperatures and MPC levels continued within normal operational limits.

